

Contents of Journal of Advanced Computational Intelligence and Intelligent Informatics Volume 29, 2025

Vol.29 No.1, January 2025

Regular Papers

Research Papers:

- **An Intent Recognition Method for Aerial Swarm Based on Attention Pooling Mechanism** 5
Hui He, Zhihong Peng, Peiqiao Shang, Wenjie Wang, and Xiaoshuai Pei
- **Egocentric Behavior Analysis Based on Object Relationship Extraction with Graph Transfer Learning for Cognitive Rehabilitation Support** 12
Adnan Rachmat Anom Besari, Fernando Ardilla, Azhar Aulia Saputra, Kurnianingsih, Takenori Obo, and Naoyuki Kubota
- **Key Point Detection in Football Match Based on Convolutional Neural Network** 23
Huan Zhang
- **Analysis of the Style Characteristics of Regional Folk Songs and Music Classification Algorithms** 33
Lin Liu and Hao Liang
- **Enhancing Individual Self-Efficacy Through a Self-Growing Memory Artificial Intelligence Agent Integrated with a Diary Application** . 41
Yuchen Guo, Chyan Zheng Siow, Wei Hong Chin, Bakir Hadžić, Akihiro Yorita, Takenori Obo, Matthias Rättsch, and Naoyuki Kubota
- **sEMG Signal-Based Human Lower-Limb Intention Recognition Algorithm Using Improved Extreme Learning Machine** 53
Shengbiao Wu, Xianpeng Cheng, and Huaning Li
- **Balancing Act: A Comparative Study of Routing Protocol Trade-Offs in MANETs** . . 64
Mourad Kezai, Rafik Dembri, and Djamel Eddine Boukhari
- **Autonomous Teleoperated Robotic Arm Based on Imitation Learning Using Instance Segmentation and Haptics Information** . . . 79
Kota Imai, Yasutake Takahashi, Satoki Tsuichihara, and Masaki Haruna
- **An Ensemble Approach with Evolutionary Algorithm for Hand Posture Classification** . 95
Takenori Obo, Eri Sato-Shimokawara, Hiroki Shibata, Yihsin Ho, and Ichiro Kobayashi
- **User Action Recognition Using a Fabric Pressure Distribution Sensor in an Electric Wheelchair for Soil Cultivation** 106
Takahiro Matsuishi, Yasutake Takahashi, and Satoki Tsuichihara
- **Relationship Between Intellectual Capital, Executive Motivation, and Corporate Innovation Level—Evidence from Chinese Listed Manufacturing Companies** 118
Junyi Ren and Yunhui Yu
- **Improved Back-Propagation Neural Network Applied to Enterprise Employee Performance Appraisal and Evaluation** 131
Yikai Zhang and Wei Li
- **Spatiotemporal Interaction Based Dynamic Adversarial Adaptive Graph Neural Network for Air-Quality Prediction.** 138
Xiaoxia Chen, Zhen Wang, Hanzhong Xia, Fangyan Dong, and Kaoru Hirota
- **Research on the Recognition of Piano-Playing Notes by a Music Transcription Algorithm** 152
Ruosi Guo and Yongjian Zhu
- **Research on Node Fault Diagnosis in Wireless Sensor Networks Based on a Constrained Data Maximum Entropy BN Parameter Learning Algorithm** 158
Huiqin Zhao, Jiang Luo, and Li Rong
- **Cooperative Active Disturbance Rejection Control for Heavy-Haul Trains** 165
Zongying Song, Shuo Li, Xiaoquan Yu, Yingze Yang, and Xingzhong Wang
- **False Data Injection Attack Detection for Virtual Coupling Systems of Heavy-Haul Trains: A Deep Learning Approach** 175
Xiaoquan Yu, Wei Li, Shuo Li, Yingze Yang, and Jun Peng

- **Research on the Measurement of Digitalization on the Integration of China's Manufacturing Industry into the RCEP Regional Value Chain. 187**
Xiaoyang Guo, Yijing Chen, Jingyi Yang, and Xiuwu Zhang
- **A Knowledge Graph Summarization Model Integrating Attention Alignment and Momentum Distillation 205**
Zhao Wang and Xia Zhao
- **Research on Cross-Border e-Commerce Supply Chain Prediction and Optimization Model Based on Convolutional Neural Network Algorithm 215**
Yajie Zhao, Bin Gong, and Bo Huang

Vol.29 No.2, March 2025

Regular Papers

Research Papers:

- **Infant-Carrying Posture Determination Using RGB Camera and BlazePose 231**
Nobuhiko Yamaguchi, Hiroshi Okumura, Osamu Fukuda, Wen Liang Yeoh, Tamami Satoh, Rika Nakano, and Asuka Sakamoto
- **Interactive Park Landscape Environment Design by Incorporating Improved SOM Algorithm 241**
Bingsheng Cui and Shuai Wang
- **Optimal Consensus Control for Switching Uncertain Multiagent Systems Using Model Reference Control and Reinforcement Learning. 256**
Wenpeng He, Xin Chen, and Yipu Sun
- **DRGCN Multitasking for Aspect-Based Sentiment Analysis. 268**
Mengyang Du and Hongbin Wang
- **Minimalist Machine Learning: Binary Classification of Medical Datasets with Matrix Transformations. 277**
José Luis Solorio-Ramírez, Oscar Camacho-Nieto, and Cornelio Yáñez-Márquez
- **Human Behavior Recognition Algorithm Based on Multi-Modal Sensor Data Fusion 287**
Dingchao Zheng, Caiwei Chen, and Jianzhe Yu
- **Driver Drowsiness Detection Based on Facial Video Non-Contact Heart Rate Measurement 306**
Fusheng Ding, Yanbin Qin, Lanxiang Zhang, and Hongming Lyu
- **Adaptive Dynamic Programming with Event-Triggered Sampling Control for Path Following of Autonomous Vehicles 316**
Haining Zhang, Fengshuo Qin, and Pengfei Zhang
- **Automated Impaction Angulation Measurement of Mandibular Third Molars for Winter's Classification Using Deep Learning. 325**
Md. Anas Ali, Daisuke Fujita, Hiromitsu Kishimoto, Yuna Makihara, Kazuma Noguchi, and Syoji Kobashi
- **Design of a Distance Learning Supervision System Based on Time-Series Data of Learning Behaviors. 337**
Yan Zhu
- **Improved YOLOv8-Based Algorithm for Detecting Helmets of Electric Moped Drivers and Passengers. 349**
Si-Yue Fu, Dong Wei, and Liu-Ying Zhou
- **Research on Multidimensional Power Big Data Clustering Algorithm Based on Graph Mode. 358**
Xue Han, Yue Zhang, and Sheng Gao
- **Tsallis Entropy-Regularized Fuzzy Classification Maximum Likelihood Clustering with a t -Distribution 365**
Yuta Suzuki and Yuchi Kanzawa
- **An Alternative Consensus Measure Based on the Gini Index for Group Decision-Making Problems 379**
María José Del Moral, José Ramón Trillo, Ignacio Javier Pérez, Cristobal Tapia-García, and Juan Miguel Tapia
- **Early Warning of College Students' Ideological and Political Course Performance Using an Optimization Algorithm 389**
Yuehua Chen
- **Generation of Comic Style Chernoff Face with GAN 396**
Yen-Chia Chen, Hiroki Shibata, and Yasufumi Takama

- **Improving the Quality of Vocational Education in Higher Vocational Colleges Based on Deep Learning Technology: Student Learning Prediction and Personalized Recommendation 407**
Lingyun Tao
- **Sentiment Analysis of Online Reviews for 5A-Level Tourist Attractions 417**
Lianchao Meng, Jingjing Chen, Jian Song, and Guoxia Sun
- **A Route Planning Scheme with 5G QoS Prediction Based on Probability Distribution Detection 423**
Daqian Liu, Wenshuai Jiang, Yuntao Shi, Jingcheng Guo, Yingying Wan, and Zhenwu Lei
- **Real-Time Fire Detection in Scenic Spot Using Convolutional Neural Network . . . 432**
He Yan, Shaheem Sayed Merajuddin, and Miao Zhang

Vol.29 No.3, May 2025

Regular Papers

Research Papers:

- **Development of a Career Planning Assistance Platform for College Students Combining Fuzzy Logic and Deep Learning 445**
Yuqi Cheng
- **Predictive Inference Models for Real-World Physical Environments. 456**
Eri Kuroda and Ichiro Kobayashi
- **Modified Maximum Likelihood Estimators for Logistic Distribution Using Ranked Set Samples 469**
Zili Zhang and Xinzi Wang
- **Comparative Study of Fresh Produce Supply Chain Models Under Contract Farming and Cooperative Markets 480**
Yameng Huang and Takashi Hasuike
- **An Intelligent Guide Application for English Online Education Based on Deep Learning 489**
Ting Zhu
- **Text Mining Analysis of User Experience in C2C E-Commerce Based on Reviews of the Flea Market on App Mercari 500**
Xiuyi Yue and Yukio Kodono
- **Prediction of Fetal Growth Restriction Using Placental Image Features in BOLD MRI. . 508**
Kentarō Nishida, Kento Morita, Naosuke Enomoto, Shoichi Magawa, Masafumi Nii, and Tetsushi Wakabayashi
- **Monocular 3D Object Detection Based on Reparametrized Cross-Dimension Focusing 519**
Ruikai Li, Chao Wang, and Guopeng Tan
- **mSleep: Multistage Human Sleep Behavior Prediction Using Enhanced MaxViT Convolution-Transformer 532**
Nourah Saad Misfer Alqahtani and Qaisar Abbas
- **High-Precision Feature Point Matching and Stereo-Depth Estimation Using Rotation-Invariant CNN 547**
Makoto Anazawa, Hajime Nobuhara, and Nozomu Ohta
- **Assist Control of Lifting Motion of Lumbar-Powered Exoskeleton Using IMU Sensors 559**
Ryosuke Fujii, Yasutake Takahashi, Satoki Tsuichihara, and Takayoshi Yamada
- **Predicting the Number of Clicks in a Local Information Sharing System Focusing on Generational Information. 574**
Daichi Inoue and Shimpei Matsumoto
- **Research on Temperature Error Calibration Method of Fluxgate Sensor 583**
Ruiping Yang, Jian Ge, Wang Luo, Xiangyun Hu, Jinhua She, Daisuke Chugo, and Haobin Dong
- **A Decomposition and Reconstruction Based Hybrid Time Series Model for Short-Term Wind Power Forecasting 592**
Min Ding, Ji Lv, Sibe Zhou, Junhao Li, Zhijian Fang, and Ryuichi Yokoyama
- **AMACO for Adaptive and Efficient Task Allocation in Medical Environments. . . . 606**
Chunmei Zhang and Fanzhu Hao
- **Feasibility Analysis of Optimization Models for Natural Gas Distribution Networks Using Machine Learning 614**
Junhao Liu, Xiaoyong Gao, and Xiaozheng Chen
- **Simulating and Modeling for Capacitance and Conductance of Parallel-Plate Coupler for Under Sea Water Applications. 623**
Ning Li, Kosuke Iguchi, Xuefeng Liu, and Takeshi Shinkai
- **Giant Magnetostrictive Actuators for Ultracompact Electric Vehicles: Analysis of Output Characteristics 631**
Taro Kato, Kentaro Sawada, Wenbao Wu, Ikkei Kobayashi, Jumpei Kuroda, Daigo Uchino, Kazuki Ogawa, Keigo Ikeda, Ayato Endo, Xiaojun Liu, Hideaki Kato, Takayoshi Narita, and Mitsuaki Furui

- **System for Analyzing User Interest Based on Eye Gaze Responses to Enhance Empathy with Users 641**
Jinseok Woo and Jiaren Hu
- **A Text-Based Suicide Detection Model Using Hybrid Prompt Tuning in Few-Shot Scenarios 649**
Yiwen He, Lulu Ji, Ruipeng Qian, and Wentao Gu
- **GCN-Transformer Autoencoder with Knowledge Distillation for Unsupervised Video Anomaly Detection 659**
Mingchao Yan, Yonghua Xiong, and Jinhua She
- **Remaining Useful Life Prediction for Tools Based on Monitoring Data and Stochastic Degradation Model 668**
Baokang Zhang, Ning Li, Jiahui Huang, Takahiro Arakawa, Kentaro Ishii, and Ryuichi Yashima
- **Spatial Correlation of Digital Economy Innovation and Economic Growth in China 677**
Jian Wang
- **Analysis of Employment Effect and Regional Characteristics of Digital Economy Development 687**
Dan Tang and Liucen Lai

Vol.29 No.4, July 2025

Regular Papers

Research Papers:

- **An Intrusion Detection Model Based on AFSA-SVM for Petroleum Multi-Channel Industrial Control Network Communication 703**
Bo Yang, Yang Xiao, Xinzhang Wang, Zehao Cui, and Cheng Peng
- **Application of Multi-Strategy Enhanced Sparrow Search Algorithm in Leak Source Localization 711**
Zeng-Qiang Chen, Shao-Kun Zheng, Cheng-Gong Chen, and Yi-Wen Zhao
- **q -Divergence-Based Fuzzy c -Linear Gaussian State Space Model 721**
Tomoki Nomura and Yuchi Kanzawa
- **Selection Prediction Models Considering Context Effects 734**
Wenhao Zhang and Takashi Hasuike
- **Agent-Based Modeling of Cultural Integration: A Post-Merger Framework for State-Owned Enterprises 743**
Jing Wang, Akinobu Sakata, and Shingo Takahashi
- **BrainLM: Enhancing Brain Encoding and Decoding Capabilities with Applications in Multilingual Learning 754**
Ying Luo and Ichiro Kobayashi
- **Fall Detection Based on Inverted-Pendulum Model as Training Data for Monitoring Elderly People Living Solitarily Using Depth Camera 768**
Eisuke Tomita and Akinori Sekiguchi
- **Effective Configuration of Reconfigurable Single Actuator Wave Mechanism Toward Autonomous Cable Laying. 777**
Yuki Sadasue, Fuga Inagaki, and Masami Iwase
- **Combining Knowledge Graph and Artificial Intelligence to Conduct Financial Report Quality Detection Research 787**
Lan Luo
- **Design of a Human-Centric Robotic System for User Support Based on Gaze Information 796**
Yuka Sone and Jinseok Woo
- **Empirical Analysis of Ticket-Sales Strategies in the Live Entertainment Market 803**
Katsuki Motodaka and Takashi Hasuike
- **Method of Entrepreneurship Program Education for College Students Based on Deep Learning 811**
Shuangxi Wang
- **Prediction of Rate of Penetration in Drilling Process with Bayesian-Optimized Gaussian Process Regression 820**
Kanghui Zeng, Min Wu, Chengda Lu, Xiao Yang, and Zhejiaqi Ma
- **Tourism Information Analysis of SNS Data Using Text Mining. 829**
Yoshiyuki Matsumoto
- **Infrared and Visible Image Fusion with Overlapped Window Transformer 838**
Xingwang Liu, Bemnet Wondimagegnehu Mersha, Kaoru Hirota, and Yaping Dai
- **An Analysis of Viewing Intentions for Promotional Videos Using Fuzzy c -Means Clustering: A Comparative Study Between Japan and Singapore. 847**
Naruki Shirahama, Naofumi Nakaya, Kenji Moriya, Kazuhiro Koshi, Keiji Matsumoto, and Satoshi Watanabe

- **Asynchronous and Flexible Federated Learning for COVID-19 Detection from Chest X-Ray Images 857**
Mohamed Hedi Elhajjaj, Salwa Said,
Nouha Arfaoui, and Ridha Ejbali
- **Russian Natural Language Processing Based on the GNN–BERT–AE Model . . . 868**
Aynur Saydu and Hui Huang
- **Intelligent Transformation Empowers the New Quality Productivity of Enterprises: Theoretical Mechanism and Empirical Evidence. 880**
Xiaoyang Guo, Xiuwu Zhang, and Yao Gui
- **Can Enterprise Intelligent Transformation Resolve the “Productivity Paradox?” Evidence from Chinese Listed Companies 894**
Jingyi Yang, Xiuwu Zhang, and Yarui Deng
- **Relationship Between Reemployment Intention, Job Performance, and Job Satisfaction Among College Interns. . . . 910**
Yun-Hsi Chang

Development Report:

- **Correlation Between Abacus Skills and Mathematical Abilities in Students’ Scores 916**
Wen-Tsung Lai and Tsung-Kuo Tien-Liu

Research Papers:

- **Dynamic Sampling and Control for Automated Road Pre-Marking Robot . . . 921**
Meng Wang, Shiyun Zhu, Juexuan Chen,
Yutong Lu, Lang Zhu, and Xue Lv
- **Single Neuron PID-Based Heave Compensation Control for Drill String System in Oceanic Drilling. 931**
Jing Ren, Chengda Lu, Chenxuan Wang,
Zhejiaqi Ma, Chao Gan, Fulong Ning,
and Min Wu
- **Small Object Detection Algorithm Based on Improved Attention Mechanism and Feature Fusion of YOLOv8 941**
Mingxing Fang, Xinyu Rui, Hongyu Cheng,
Xinke Liu, Jinhua She, Youwu Du,
and Haoran Tan
- **Consensus Knowledge-Guided Semantic Enhanced Interaction for Image-Text Retrieval. 956**
Hongbin Wang, Hui Wang, and Fan Li
- **Integrating Fuzzy Clustering and Profile Analysis on Retrospective Measurement for Project-Based Learning 968**
Yuan-Horng Lin and Chiing-Chang Chen

Development Report:

- **The Development of Abacus Education and its Influence on Mathematical Ability from Teachers’ Perspectives. 977**
Wen-Tsung Lai and Tsung-Kuo Tien-Liu

Vol.29 No.5, September 2025

Regular Papers

Research Papers:

- **Experimental Validation of Optimal Message Limits in Distributed Local Search for Ship Collision Avoidance 989**
Donggyun Kim
- **Measurement Instrumentation for Aluminum Electrolysis Cell. 999**
Xin Ji, Zhaohui Zhang, Xiaoyan Zhao,
Tianyao Zhang, and Yan Chen
- **Using Artificial Intelligence Technology to Improve the English Learning Experience for College Students 1007**
Xiaojing Huang, Arshad Abd Samad,
Xiaochao Yao, and Bofan He

- **Multi Strategy SA-PSO for Inverted Pendulum Identification Combined with Explicit Model Predictive Control 1019**
Zixu Li, Jingyuan Li, Yuhui Huang, Yiran Li,
and Bin Xin
- **SAIE-GZSL: Semantic Attribute Interpolation Enhancement for Generalized Zero-Shot Learning. 1029**
Xiaomeng Zhang, Zhi Zheng, and Xiaomin Lin
- **Switching Prediction of Sliding and Rotating Modes in Compound Directional Drilling Based on Sliding Window 1039**
Lijuan Fan, Chengda Lu, Hao Li, Wangnian Li,
Hongchao Wei, and Min Wu
- **Spatial Incremental Model-Predictive Repetitive Control for Rotational Systems 1047**
Yujian Zhou, Jinhua She, Shijie Guo, Feng Wang,
Seiichi Kawata, and Makoto Iwasaki

- **Research on Action Recognition Algorithm Based on SlowFast Network** 1056
Yinhao Xu and Yuanyao Lu
- **Design and Implementation of Digital Twin System of OCS Maintenance Robot** . . . 1062
Ziqing Zhu, Chuhan Chen, Xiao Liu, Kening Liang, and Yuchuan Jia
- **Reconstruction of Missing Data Completely at Random for Trains Based on Improved GAN** 1068
Jing He, Xin Chen, and Changfan Zhang
- **Lightning Image Segmentation Based on Contour Detection and Curvature Analysis** 1077
Tong Xiao, Shaoyun Jin, Ziyue Liu, Deng Ju, Jinyan Xu, Yurui Xie, and Hui Li
- **The Dynamics of the Power Balance in Inter-Organizational Relationships: The Relationship Between Body Assemblers and Supplier Firms in BEVs** 1091
Yousin Park, Iori Nakaoka, and Yunju Chen
- **A Study on International Comparison of R&D Activities of Capacitors Focusing on Failure Modes Using Patent Information** 1099
Iori Nakaoka and Hirochika Akaoka
- **Integral Sliding Mode Impedance Control Incorporating Exponential Reaching Law for Grinding Robot** 1107
Lin Jia, Huan Chen, Changfan Zhang, Zhongmei Wang, and Li Liu
- **Interior Acoustic Control System Using Boundary Vibration with Giant Magnetostrictive Actuator: Improving Noise Reduction Through Actuator Placement and Secondary Path Construction** 1117
Wenbao Wu, Yudai Tanaka, Kentaro Sawada, Taro Kato, Ikkei Kobayashi, Jumpei Kuroda, Daigo Uchino, Kazuki Ogawa, Keigo Ikeda, Ayato Endo, Takayoshi Narita, and Hideaki Kato
- **Ten W Class of Stable Solar-Pumped Laser Using a Cone-Shaped Solar Cavity and 0.7 m²-Fresnel Lens** 1131
Tomomasa Ohkubo, Koki Nishino, Ei-ichi Matsunaga, Thanh-Hung Dinh, and Yuji Sato
- **A Parallel CNN-Transformer Framework for Speech Age Recognition** 1137
Zheyang Zhang, Renwei Li, and Kewei Chen
- **A Short-Term Load Forecasting Method Based on a Hybrid Model for Industrial Boiler Generator Sets** 1145
Yan Xu, Min Wu, Jie Hu, Sheng Du, Fusheng Peng, Wen Zhang, Wenshuo Song, and Huihang Li
- **Railway Wheel-Tread Defect-Recognition Method Using Improved Convolutional Neural Network Technology** 1153
Jing He, Zhipeng Ouyang, and Changfan Zhang
- **Construction and Application of Innovation and Entrepreneurship Sharing Platform Based on Attention-Mechanism Graph Convolutional Network** 1162
Wei Wei
- **Improved Fuzzy Adaptive Membership Function Algorithm for High-Density Surface Electromyography Based Hand Gesture Classification** 1172
Yidong He, Yinfeng Fang, Yunhao Zhang, and Dalin Zhou
- **Auction-Based Algorithm for the Forest Firefighting Coalition Formation Problem** 1182
Sili Yang, Jia Zhang, and Ruotong Wu
- **Verbal Representation of Object Collision Prediction Based on Physical Properties** 1190
Eri Kuroda and Ichiro Kobayashi
- **Proposal and Design of a Mobile Robot-Restrained UAV Trainer** 1203
Daichi Arai and Edwardo F. Fukushima
- **Real-Time Evaluation and Optimization Model of Education Quality Based on Improved D^{*} and RRT Algorithm** 1212
Rui Pan and Ming Dong
- **Noninvasive Optical Flow Analysis of White Blood Cell Dynamics for Enhanced COVID-19 Screening** 1226
Emi Yuda, Yutaka Yoshida, Itaru Kaneko, Daisuke Hirahara, and Junichiro Hayano

Vol.29 No.6, November 2025

- **Congratulations: JACIII Best Paper, Young Researcher, and Best Review Paper Awards 2025** 1243

Regular Papers:**Research Papers:**

- **Pedestrian Re-Recognition Based on Spatiotemporal Transformer Skeleton Contrastive Learning and Feature Optimization** 1249
Yanru Jia, Yuanyuan Zhang, and Yilun Gao

- **Enhanced Stance Detection for Arabic Tweets 1262**
Abeer Almasoudi, Muhammad Arif,
Ahlam Hashem, and Esraa Samkari
- **An Improved Byte Pair Encoding Method for Tibetan. 1273**
Kalzang Gyatso, Sonam Tshering, Tashi Norbu,
Nyima Tashi, Tong Xiao, Jingbo Zhu,
Garma Tashi, and Gaden Luosang
- **A Method for Recognizing Entities in Power News Texts Based on Dependency Syntactic Parsing 1283**
Yun Wu, Xinru Liu, Yan Du, Jieming Yang,
Zhenhong Liu, Kai Yang, and Ziyi Wang
- **Color Visual Expression in Product Packaging Design Based on Feature Fusion Network 1292**
Zemei Liu
- **Vehicle Traffic Prediction and Analysis Using Hybrid Deep Learning Technique 1305**
Betty Paulraj, Shilpi Sharma,
Narayan C. Debnath, and Ramzi A. Haraty
- **Dual-Branch Residual Network for Enhanced Steel Plate Fault Detection 1311**
Hao Chen and Jiaxin Lu
- **Linear Transformer Based U-Shaped Lightweight Segmentation Network . . . 1319**
Hongli He, Changhao Sun, Zhaoyuan Wang,
and Yongping Dan
- **A Fast Depression Detection Method Based on AKRCC-KNN Model 1329**
Jing Kan, Wei Tong, Bichen Wu, Yongchun Ma,
and Kewei Chen
- **Resource-Constrained and Time-Aware Reinforcement Learning Framework for Sustainable Fertilization Strategies . . . 1342**
Muhammad Alkaff, Abdullah Basuhail,
Yuslena Sari, and Kamal Jambi
- **Finite Element Simulation of Hydraulic System Based on TFY-YH Parking Anti-Slip Device 1358**
Qunyan Xing, Yuchen Shi, and Yongle Ju
- **Research on the Knowledge Representation Method of Power News Text Based on Time Hyperplane 1369**
Yun Wu, Ziyi Wang, Yan Du, Jieming Yang,
Xinru Liu, Zhenhong Liu, and Kai Yang
- **Research on the Application of Intelligent Object Recognition System in Classroom Attendance and Student Behavior Analysis in Universities. 1377**
Lin Yang, Gai Hang, and Xuehui Zhang
- **Anomaly Detection in Borehole Strain Data with CNN and Frequency-Aware VAE . . 1390**
Xiaolong Wei, Qingjie Liu, and Zhian Pan
- **Posture Estimation and Obstacle Detection by Embedding Distance-Measuring Sensors in a Spherical Mobile Robot 1402**
Ryota Nakagawa and Yuki Ueno
- **Type-2 Fuzzy Robust Regression with Two-Step Construction 1410**
Yoshiyuki Yabuuchi
- **Interactive Image Caption Generation Reflecting User Intent from Trace Using a Diffusion Language Model 1417**
Satoko Hirano and Ichiro Kobayashi
- **Generating Natural Language Sentences Explaining Trends and Relationships of Two Time-Series Data 1427**
Yukako Nakano and Ichiro Kobayashi
- **Mobile-YOLO: A Lightweight YOLO for Road Crack Detection on Mobile Devices . . . 1443**
Anjun Yu, Yixiang Gao, Yonghua Xiong,
Wei Liu, and Jinhua She
- **An Empirical Study of Consumer Purchase Behavior in Live Commerce 1454**
Lu Jiang and Yukio Kodono
- **Design Adaptive Non-Linear PID Control Using Reinforcement Learning for Optimal Autonomous Greenhouse Microclimate Regulation. 1464**
Hayder M. Abbood, Seyed Hamed Seyed
Alagheband, Amer Matrood Imran,
Salah Mahdi Ali, and Murtadha A. Hassan
- **Multiscale Attention-Based Model for Image Enhancement and Classification 1484**
Mingyu Guo and Tomohito Takubo
- **Intelligent Prediction of Uniaxial Compressive Strength Based on Multi-Source Information Fusion 1500**
Quanxin Li, Hongbo Dong, Youzhen Zhang,
un Fang, and Wangnian Li
- **Multi-Task Prediction Method for User Behavior Utilizing Transformers. 1507**
Ke Li, Huan Fang, Chifeng Shao, and Yifei Xu
- **A PID Control System for Lower-Limb Rehabilitation Robot with a Function for Pedal Torque Estimation 1517**
Yue Jing, Zewen Wang, Qiwei Wu, Jinhua She,
and Seiichi Kawata
- **Does Robot Clothing Really Help? User Preferences and Effects in Simulated Domestic Scenarios 1530**
Kazunari Yoshiwara and Kazuki Kobayashi

Development Report:

- **Inclusion–Exclusion Integral Neural Networks:
A Framework for Explainable AI with Non-
Additive Measures 1541**
Yoshihiro Fukushima, Katsushige Fujimoto,
Simon James, and Aoi Honda

Research Papers:

- **On User’s Reception of Local Explanation:
An Argumentation Analysis 1552**
Nguyen Duy Hung, Thanaruk Theeramunkong,
and Van-Nam Huynh
- **Revised Margin-Maximization Method for
Nearest Prototype Classifier Learning . 1565**
Yoshifumi Kusunoki and Tomoharu Nakashima

-
- **Acknowledgments to Reviewers I-1**
 - **Contents of Journal of Advanced
Computational Intelligence and Intelligent
Informatics Volume 29 I-4**
 - **Keyword Index of Journal of Advanced
Computational Intelligence and Intelligent
Informatics Volume 29 I-12**
 - **Author Index of Journal of Advanced
Computational Intelligence and Intelligent
Informatics Volume 29 I-17**